

Chapter 5 Transportation

Streets and Highways

There are 796.74 miles of road in Douglas County. The County maintains 231.67 miles of road, or 29.08 percent of the total. The remaining roads are maintained by the Towns of Gardnerville, Genoa, and Minden, as well as 16 different General Improvement Districts and two homeowner associations. In addition, there are 98.22 miles of private roads in Douglas County. Map 5.1 is an index showing the seven maintenance zones within the County. Maintenance Maps for each zone start on page 3 of the Transportation Chapter.

Map 5.1
Douglas County Maintenance Zone Index

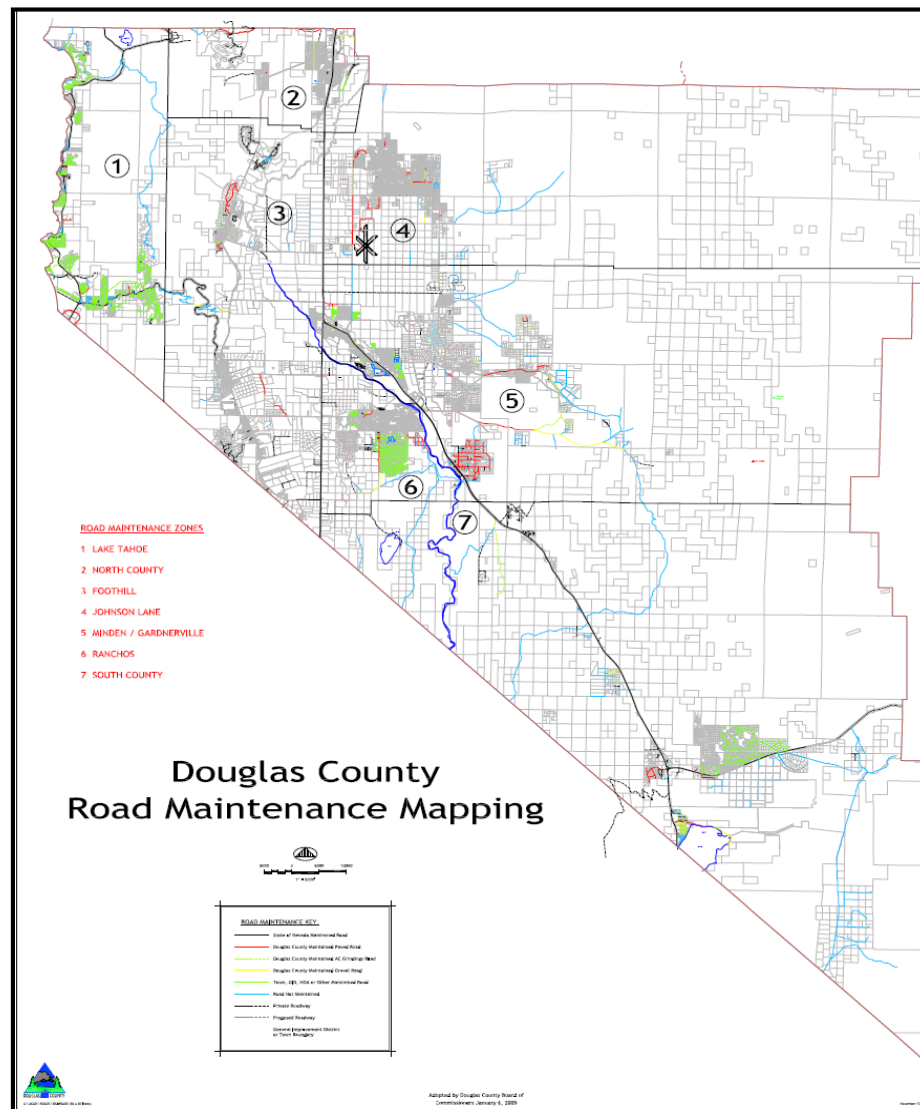
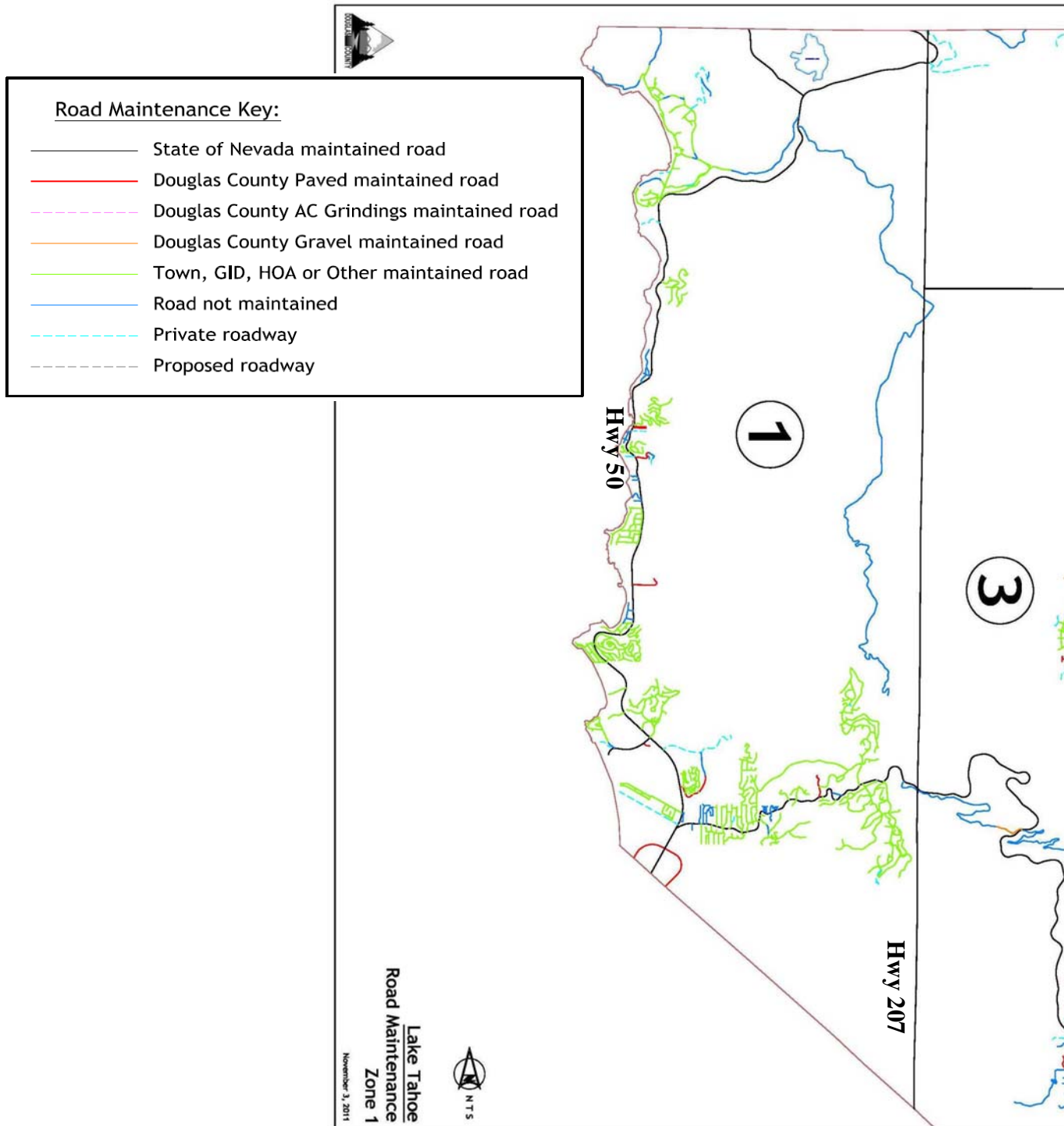


Figure 5.1 provides information on road maintenance responsibilities in Douglas County. Of the 796.74 total miles of road in the County, Douglas County maintains a total of 231.67 miles of road including 17.19 miles of gravel roads, 43.12 miles of grindings roads, and 171.36 miles of paved roads.

Figure 5.1
Lineal Miles of Roads Maintained and Entities Responsible for Maintenance

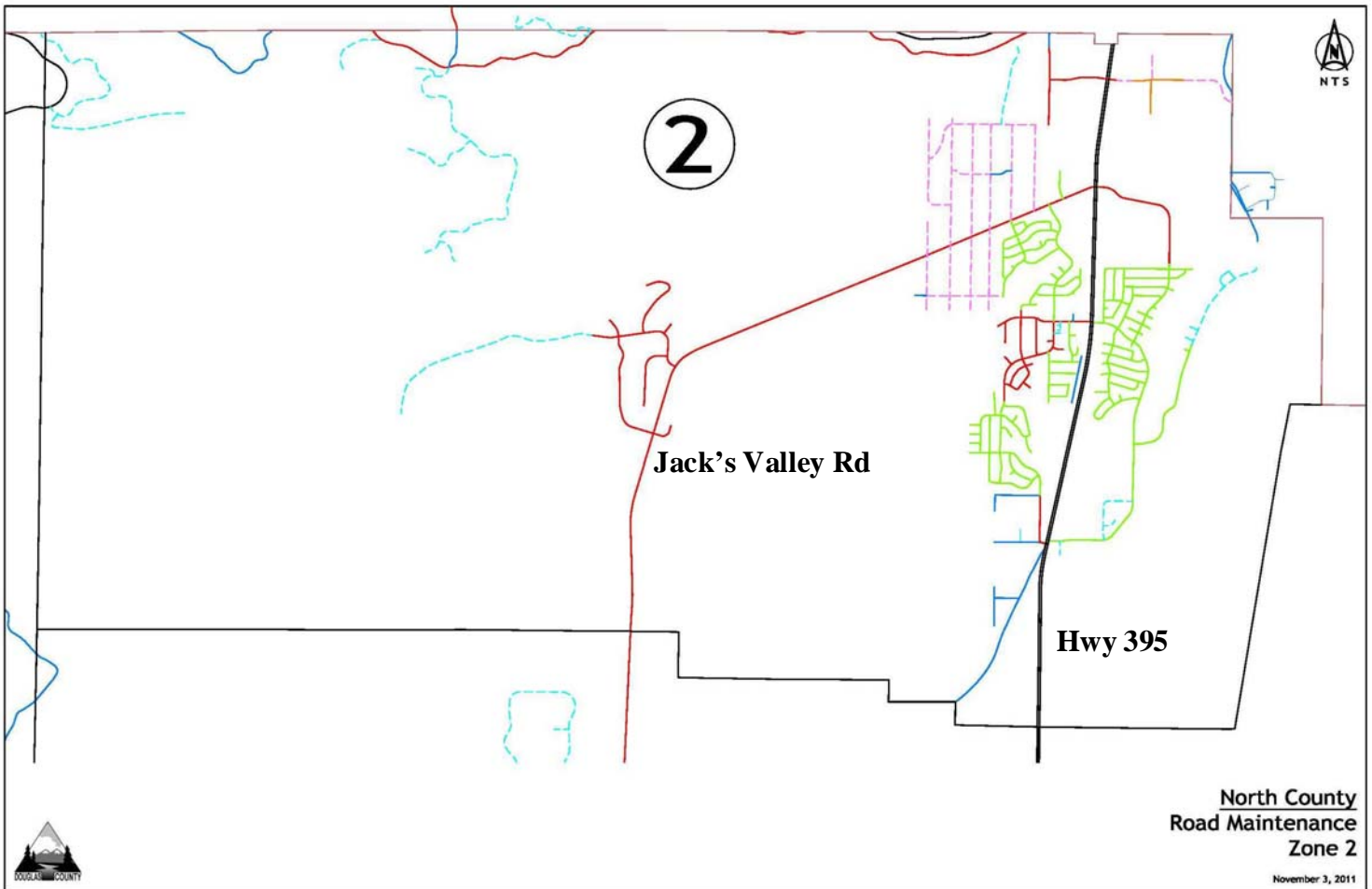
<u>Abbreviation</u>	<u>Jurisdiction Responsible for Maintenance</u>	<u>2008</u>	<u>2011</u>
CREGID	Cave Rock Estates GID	2.21	2.21
DC-G	Douglas County - Gravel	18.24	17.19
DC-GR	Douglas County - Grindings	42.93	43.12
DC-P	Douglas County - Paved	167.27	171.36
EPGID	Elk Point GID	0.93	0.93
Gardnerville	Town of Gardnerville	20.76	23.37
Genoa	Town of Genoa	2.46	2.05
GHOA	Glenbrook HOA	6.95	7.09
GRGID	Gardnerville Ranchos GID	43.30	42.87
IHGID	Indian Hills GID	16.42	15.82
KGID	Kingsbury GID	28.37	28.59
LCEGID	Logan Creek Estates GID	1.75	1.75
LRGID	Lake Ridge GID	0.98	0.98
LVGID	Lake Village GID	2.13	2.16
MBGID	Marla Bay GID	1.43	1.43
Minden	Town of Minden	14.56	16.12
NA	Public, Not Accepted for Maintenance	173.22	177.04
NDOT	Nevada Department of Transportation	101.85	101.85
OPGID	Oliver Park GID	1.98	1.98
Private	Private	93.78	98.22
RHGID	Round Hill GID	4.38	4.38
SGID	Skyland GID	2.87	2.87
TREGID	Topaz Ranch Estates GID	26.77	26.77
UHOA	Uppaway HOA	1.14	1.14
ZCGID	Zephyr Cove GID	0.73	0.73
ZHGID	Zephyr Heights GID	3.71	3.71
ZKGID	Zephyr Knolls GID	1.01	1.01
	Totals	782.13	796.74

Map 5.2
Douglas County Maintenance Zone 1



Source: Douglas County Community Development Department

Map 5.3
Douglas County Maintenance Zone 2

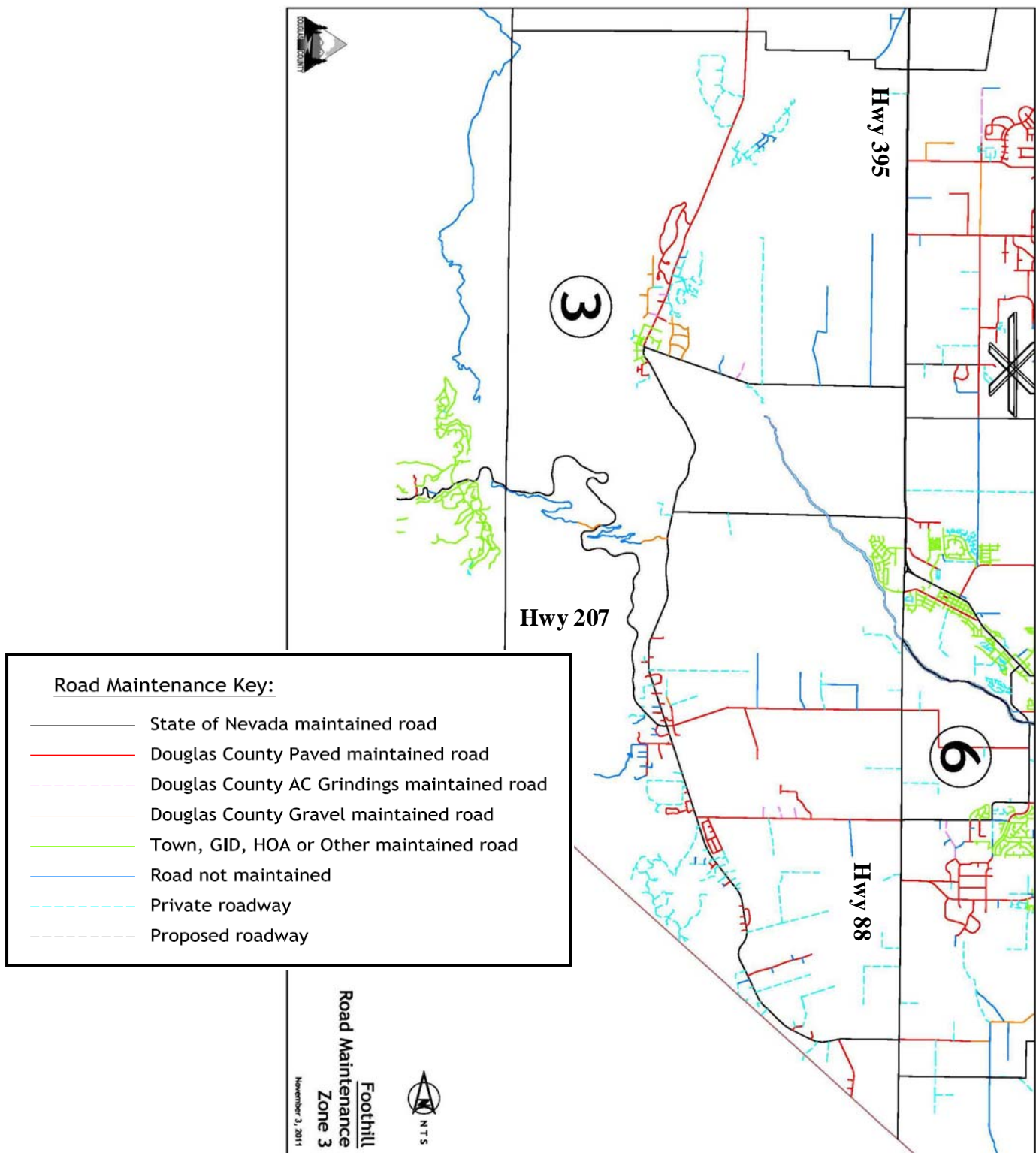


Source: Douglas County Community Development Department

Road Maintenance Key:

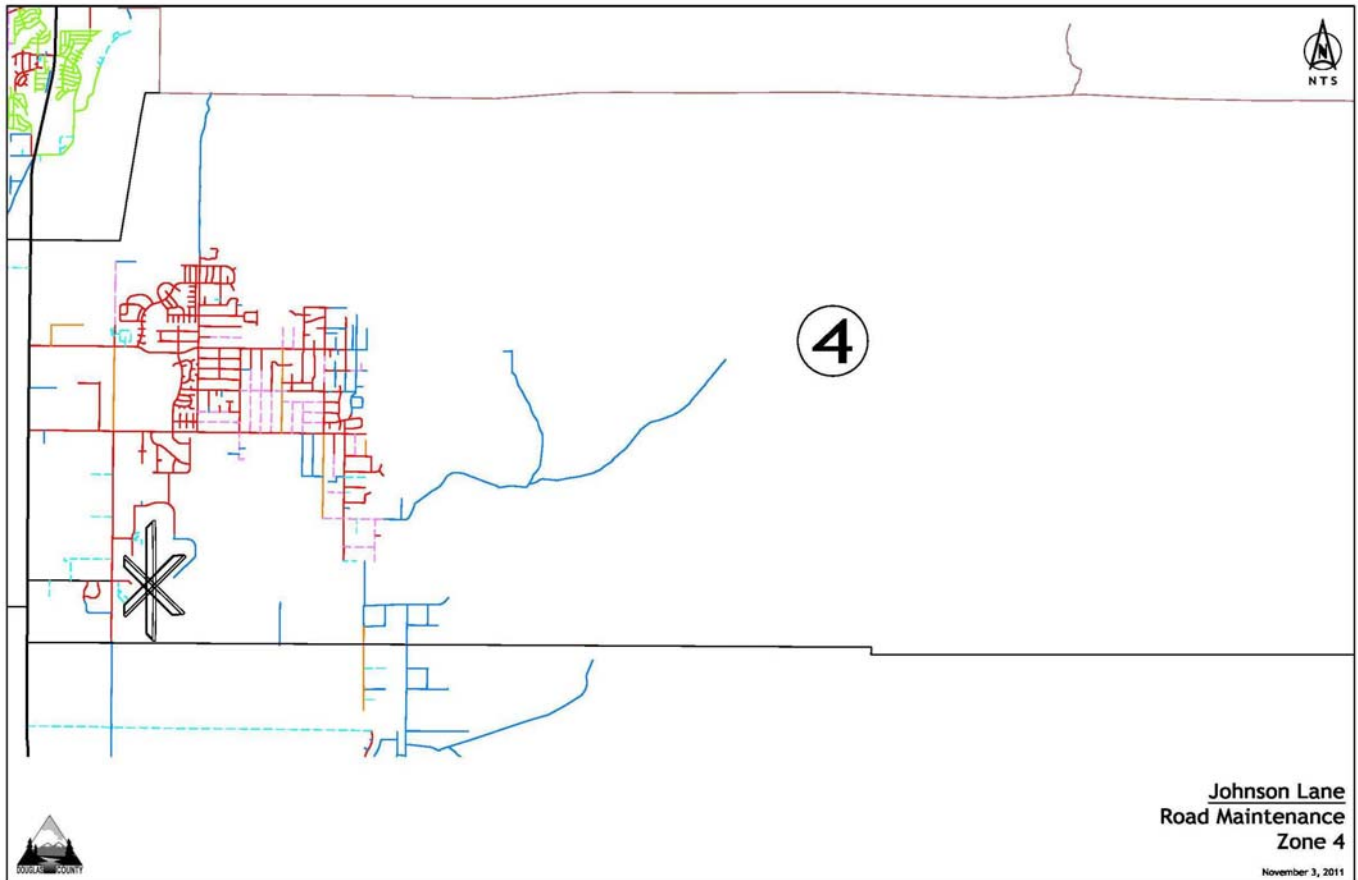
- State of Nevada maintained road
- Douglas County Paved maintained road
- - - Douglas County AC Grindings maintained road
- Douglas County Gravel maintained road
- Town, GID, HOA or Other maintained road
- Road not maintained
- - - Private roadway
- - - Proposed roadway

Map 5.4
Douglas County Maintenance Zone 3



Source: Douglas County Community Development Department

Map 5.5
Douglas County Maintenance Zone 4

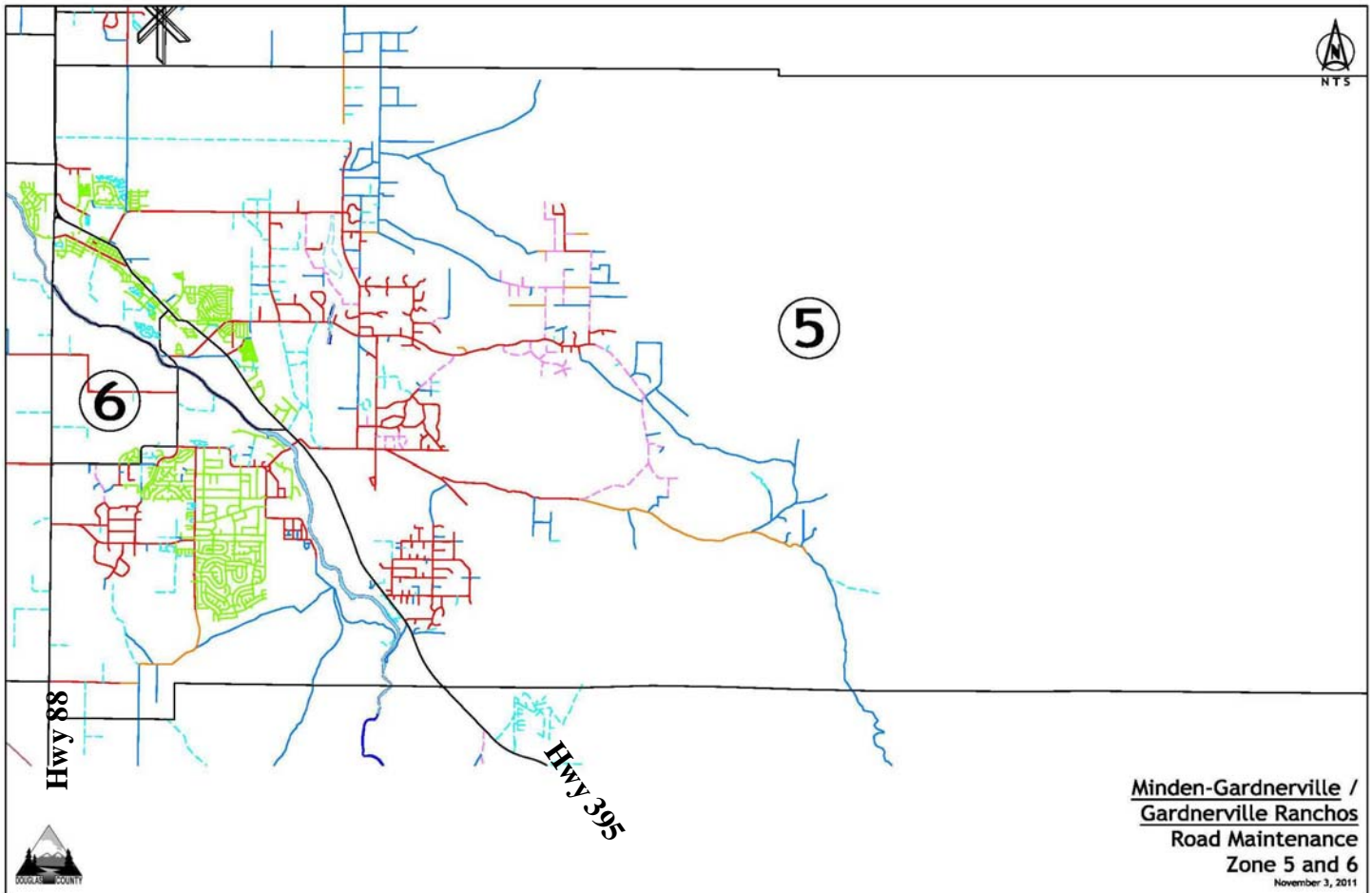


Source: Douglas County Community Development Department

Road Maintenance Key:

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Map 5.6
Douglas County Maintenance Zones 5 & 6

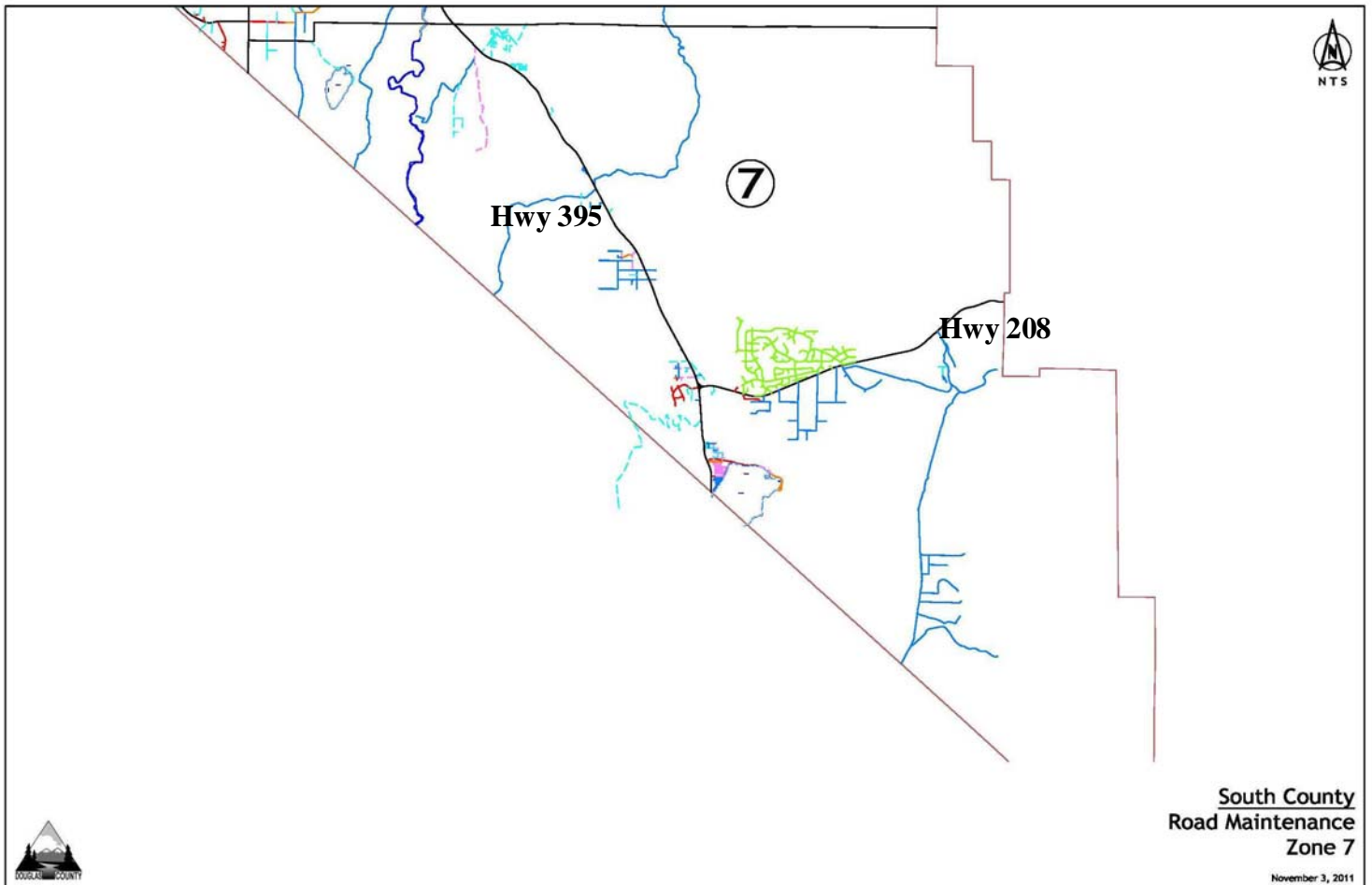


Source: Douglas County Community Development Department

Road Maintenance Key:

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Map 5.7
Douglas County Maintenance Zone 7



Source: Douglas County Community Development Department

Road Maintenance Key:

- State of Nevada maintained road
- Douglas County Paved maintained road
- Douglas County AC Grindings maintained road
- Douglas County Gravel maintained road
- Town, GID, HOA or Other maintained road
- Road not maintained
- Private roadway
- Proposed roadway

Figure 5.2 shows historic average daily trips counts at 23 different stations operated by the NDOT.

Figure 5.2
Average Daily Trip Counts, 2000-2010

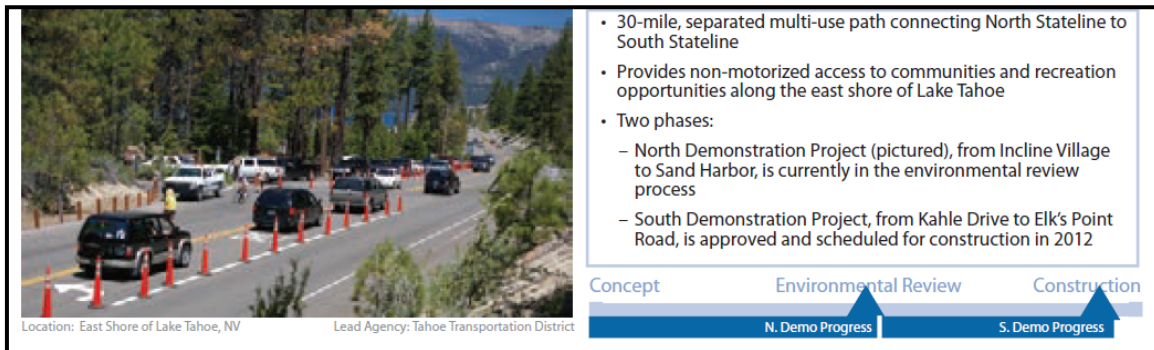
NDOT Station	Location	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
50029	US 395, .2 mi. S of Muller Ln.	26,600	26,600	29,200	30,500	30,500	32,500	32,000	29,000	28,000	28,000	27,000
50045	US 395, .4 mi. N/of Jacks Valley Rd	37,600	37,600	39,600	36,500	44,000	45,500	46,000	4,000	41,000	40,000	38,000
50011	US 395, 650' S of SR-88	24,300	24,300	24,900	26,200	26,200	27,700	25,900	26,000	24,000	24,000	24,000
50069	US 395 .5 mi. S of Pinenut Rd	10,000	11,000	10,800	11,500	11,800	12,300	11,900	12,000	11,000	11,000	12,000
50001	US 395 at NV/CA State line(Topaz)	3,900	3,98	4,100	4,300	4,600	4,600	4,450	4,700	3,100	4,100	4,600
50034	Jacks Valley Rd, .15 mi. W of 395	9,000	9,000	15,300*	11,000*	11,000*	11,000*	11,000*	10,000	9,400	8,600	8500*
50024	Kingsbury Grade .3 mi. w/of Foothill	4,850	5,300	5,200	5,550	5,400	5,700	5,700	5,700	5,700	5,100	5000*
50042	Kingsbury Grade 350' E of US-50	15,200	15,200	14,800	15,000	14,700	14,600	14,300	13,000	14,000	13,000	14,000
50041	US-50, 300' E of SR-207	23,000	25,000	24,100	22,100	22,300	27,700	23,700	20,000	20,000	21,000	22,000*
50003	SR-208, 1 mi. E of US 395	3,550	3,600	3,600	3,900	3,900	4,100	4,150	4,000	3,600	3,800	3,400
50032	Airport Rd., .1 mi. E of 395	2,300	2,300	2,200	2,450	2,450	2,700	2,550	3,000	2,500	2,600	2,300
50052	Johnson Ln, .2 mi. E of 395	4,800	4,900	6,000	6,350	6,450	7,250	7,250	6,600	5,700	5,900	5,100
50028	Genoa Ln, 200' W of 395	1,400	1,400	1,600	1,600	1,500	1,450	1,450	1,500	1,500	1,300	1,400
50026	Muller Ln, 200' W of 395	1,500	1,600	1,600	1,550	1,500	1,500	1,650	1,500	1,700	1,500	1,000
50013	Mottsville Ln, .3 mi. W of SR-88	4,300	3,700	3,700	4,100	3,700	4,050	4,050	4,100	4,600	4,300	4,000
50062	Centerville Ln, 150' E of Foothill Rd	2,200	2,400	2,400	2,500	2,500	2,450	1,900	2,500	2,400	2,300	2,200
50018	Centerville Ln, .1 mi. E of SR-88	3,850	3,800	4,100	4,450	4,500	4,300	4,250	4,200	3,900	3,800	4,000
53130	Centerville Ln.N of Dresslerville	9,000	8,610	8,580	8,620	9,297	8,800	8,850	8,700	8,500	N/A	N/A
50016	Gilman Ave (756), .3' W of 395	5,650	5,300	5,250	5,800	5,500	6,600	6,650	5,400	5,600	5,500	5,100
50015	Waterloo Ln, .2 mi. E of SR-88	1,700	1,800	1,900	2,050	2,000	2,200	2,250	2,100	2,100	2,000	1,900
50056	Waterloo Ln, .2 mi. E of 395	5,050	6,100	6,700	7,150	7,200	6,900	7,400	7,200	7,200	7,400	6,600
50058	Toler Ave, .3 mi. E of Elges Rd	3,450	3,800	4,100	4,400	3,800	3,900	4,050	4,200	4,000	4,000	3,700
50066	Kimmerling Rd, 75' E of Short Ct	6,650	6,900	6,900	7,350	7,250	7,300	6,900	6,600	6,200	6,200	5,700

*Estimates by NDOT

Tahoe Transportation District

Figure 5.3 provides a brief description of the Nevada Stateline-to-Stateline Bikeway being coordinated by the Tahoe Transportation District (TTD).

Figure 5.3
Description of Nevada Stateline-to-Stateline Bikeway



The alignment for the Nevada Stateline-to-Stateline Bikeway has been developed at a conceptual level. Figure 5.4 shows estimated cost estimates and phasing by the Tahoe Transportation District and are based on factors such as segment length, the need for complex engineering solutions, cut and fill quantities, tree removal, and support facilities, such as restrooms and parking. For purposes of conceptual estimates, the district assumed that no private property would need to be acquired.

Figure 5.4
Nevada Stateline-to-Stateline Bikeway Cost Estimates and Phasing

Trail Segment	Segment Length (ft)	Estimated Cost (\$)	Suggested Phasing Order	Reason
A	14,600	14,700,000	5	Extends system south from Sand Harbor to Secret Harbor trailhead.
B	14,500	16,100,000	6	Extends system south from Secret Harbor trailhead to Skunk Harbor access road.
C1	13,500	15,800,000	7	Connects north and south legs.
C2	15,200	12,400,000	4	Extends system north to Spooner Junction and regional parking hub.
D	17,600	15,000,000	3	Extends system north to Glenbrook. Commuter options.
E	13,700	11,000,000	2	Extends system north to Cave Rock. Commuter options. Second cheapest segment.
F	8,500	6,000,000	1	Extends system north to Zephyr Cove from South Demo Project. Commuter options. Cheapest Segment.
TOTALS	97,600	91,000,000		
Note: Segment C is divided into two construction segments. Segment C1 extends from the Skunk Harbor access road to Spooner Junction and Segment C2 extends from Spooner Junction to the Glenbrook entrance gate.				

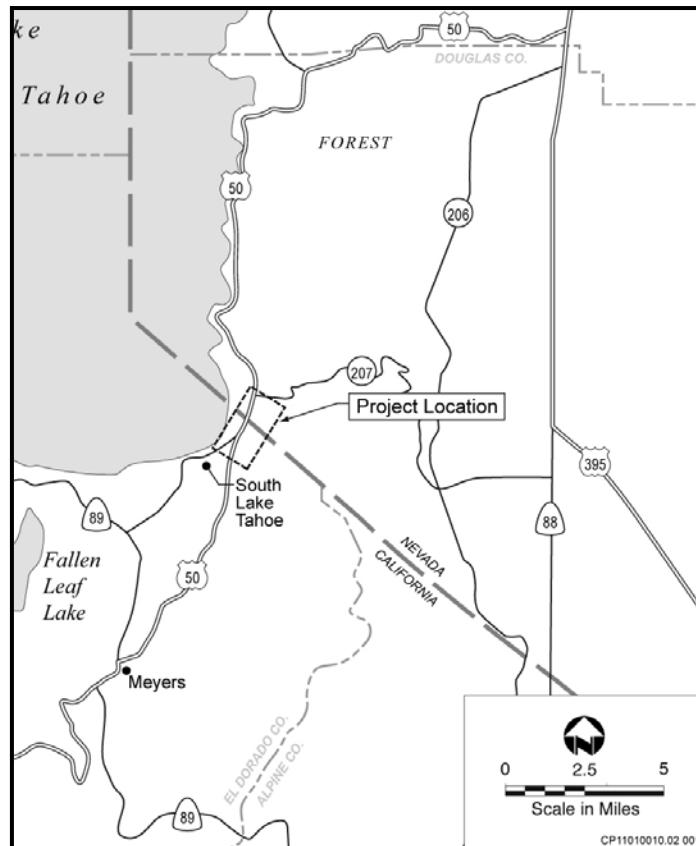
Figure 5.5 and Map 5.8 provide information on the U.S. 50 South Shore Revitalization Project being coordinated by the Tahoe Transportation District.

Figure 5.5
Description of the U.S. 50 South Shore Revitalization Project



Source: Tahoe Transportation District

Map 5.8
Location of the U.S. 50 South Shore Revitalization Project



Map 5.9 shows the location of the two capital improvement projects located in Douglas County.

Map 5.9
Tahoe Transportation District's Capital Projects



Transportation Revenues

Figure 5.6 provides information on the different transportation revenue sources in Douglas County. The revenue sources include the residential and non-residential construction tax, the 1 percent room tax, as well as local and regional gas taxes. Since the year 2005, all three revenue streams have been steadily declining.

Figure 5.6
Douglas County Transportation Revenues

	ROAD FUND REVENUES										
	FY00/01	FY01/02	FY02/03	FY03/04	FY04/05	FY05/06	FY06/07	FY07/08	FY08/09	FY09/10	FY 10/11
CONSTRUCTION TAXES											
Road construction tax - residential (\$500 per Unit)	304,500	321,500	362,000	293,000	330,262	286,500	91,500	64,957	31,500	27,500	12,500
Road construction tax - commercial (.50 cent per sq ft)	-	-	-	30,834	248,508	193,843	158,831	103,839	72,547	44,411	38,627
Total of Construction taxes	304,500	321,500	362,000	323,834	578,770	480,343	250,331	168,796	104,047	71,911	51,127
		5%	11%	-12%	44%	-20%	-92%	-48%	-62%	-45%	-41%
ROOM TAXES (1% Valley and 1% Lake)											
Room tax (1%) - Valley	65,978	68,454	77,921	81,124	83,035	82,065	85,446	80,117	73,452	67,455	68,855
Room tax (1%) - Tahoe (TDTD)	661,085	636,352	599,437	588,324	580,817	599,576	590,928	577,037	493,920	447,869	449,136
Total Room Taxes	727,063	704,806	677,358	669,448	663,852	681,641	676,374	657,154	567,372	515,325	517,991
		-3%	-4%	-1%	-1%	3%	-1%	-3%	-16%	-10%	1%
ROAD OPERATING FUND (6.35-cent)											
Gas tax (\$0.01) - County option	222,522	232,215	251,225	252,976	242,158	230,164	212,471	209,223	235,073	212,540	196,247
Adjustments per State	-	-	-	-	-	-	-	-	-	(63,924)	0
Adjusted 1-cent gas tax revenue	222,522	232,215	251,225	252,976	242,158	230,164	212,471	209,223	235,073	148,616	196,247
Gas tax (2.35 cents)	321,605	342,806	363,524	384,405	388,682	402,029	408,696	408,204	388,710	379,532	380,271
Gas tax (1.75 cents)	382,180	398,220	433,352	435,183	417,738	388,709	366,519	360,366	405,850	365,746	338,131
Adjustment per State	-	-	-	-	-	-	-	-	-	(109,263)	0
Gas tax (1.25 cents)	171,067	181,361	193,372	204,472	214,098	213,846	217,392	217,130	206,506	200,946	201,838
Total Adjusted 6.35-cent revenue	1,097,374	1,154,602	1,241,473	1,277,036	1,262,676	1,234,748	1,205,078	1,194,923	1,236,139	985,577	1,116,486
		5%	7%	3%	-1%	-2%	-2%	-1%	3%	-25%	12%
REGIONAL TRANSPORTATION (4-cent)											
Gas tax (4 cents)	884,468	924,200	999,833	1,008,476	965,284	917,009	845,583	832,664	935,548	845,880	781,029
Adjustments per State	-	-	-	-	-	-	-	-	-	(254,417)	-
Adjusted 4-cent revenue	884,468	924,200	999,833	1,008,476	965,284	917,009	845,583	832,664	935,548	591,463	781,029
		4%	8%	1%	-4%	-5%	-8%	-2%	11%	-58%	24%

Note: The adjusted 6.35-cent and 4-cent revenues for FY 09/10 reflect corrections associated with overpayment in FY 08/09. (Costco gas taxes were erroneously credited to Douglas County in FY 08/09 and FY 09/10 and the State withheld funds in FY 09/10 from Douglas County to correct the overpayment.)

- * Revenues for FY 09/10 reflect corrections associated with a State overpayment in FY 08/09, the State withheld funds (Costco gas taxes were erroneously credited to Douglas County in FY 08/09).

Minden-Tahoe Airport

Local and Itinerant Operations Forecast

Forecasts of operations have been categorized into local and itinerant operations. Local means an operation that stays within the traffic pattern airspace (non-itinerant). Itinerant means an operation is arriving from outside the traffic pattern or departs the airport traffic pattern. The number of local operations will likely continue to be the dominant aircraft activity at the Minden-Tahoe Airport. Local operations currently account for 80 percent of all airport operations and this rate is projected to remain constant throughout the planning period.

Figure 5.7
Summary of Local and Itinerant Operations
2005-2026

Year	Local	Itinerant	Total
2005 ⁽¹⁾	63,623	15,906	79,529
2011	66,296	16,574	82,870
2016	67,648	16,912	84,560
2021	69,481	17,370	86,851
2026	71,313	17,828	89,141

Source: Minden-Tahoe Airport Master Plan

⁽¹⁾ Actual

Douglas County Trails

Map 5.10 is a conceptual plan for the Genoa Trail. The first phase will connect the Town of Genoa to Walley's Hot Springs Resort and the second phase of the plan will connect the Town of Genoa to the River Fork Ranch nature trails. Map 5.11 displays the network of existing and proposed trails throughout Douglas County.

Map 5.10
Proposed Genoa Trail

